



(Pty) Limited



PRODUCT SPECIFICATIONS

DATA SHEET NO : MB-5

NEW CRUMB RUBBER TECHNOLOGY (N.C.R.T)

PROPERTY	SPECIFICATIONS	TEST METHOD
1) Compression recovery, % after 5 minutes 1 hour 24 hours	Min 70%	MB – 11
	Min 70%	MB – 11
	Min 40%	MB – 11
2) Softening point (R&B), °C	65 – 80	MB – 17
3) Resilience at 25°C , %	10 – 40	MB – 10
4) Flow at 70°C mm	0 - 70	MB – 12
5) Dynamic viscosity (Haake) @ 170 °C/ dPa.s*	10 – 40	MB – 13
6) Typical density in kg/litre @ Mixing temperature @ 180 ° C – 200°C Spraying temperature @ 175 - 190°C	Typical density 0,9003 Typical density 0,9003	
7) Application and storage temperatures Longer Term Storage Temperature (> 7 days) Application Temperature (daily operations)	Refer modified binders TG1 –Table 18 150°C 175-190°C	
8) Uses	S-R2 Spray and chip	A-R2 Hot-mix asphalt
9) Cleaning and handling	Refer Safety Data sheets	

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NOTE: This data is issued as a guide to the use of the product(s) concerned and whilst every effort is made to ensure the accuracy of the text which is in accordance with the latest technical developments, we cannot accept responsibility for any work carried out with our materials as we have no control over the method of application used or condition of site involved. In view of the constant research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on demand.

Revised by: J. van Heerden

Approved by: J. Muller

Date : December 2017



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NOTE:

The spray temperature is 175-180°C
On site the temperature drop ~ 10°C to 170°C

The following table was proposed to the Road Pavement Forum Bitumen Material Committee for and Addendum to the Technical Guideline for the Use of Modified Bituminous Materials (TG1 Rev. 2015).

The RPF BitMat Committee approved the request to propose the Addendum for Alternative Bitumen Rubber Products to be submitted for approval by the Road Pavements Forum in November 2017.

Property	Unit	Test Method	Class	
			A-R2	S-R2
Softening Point ¹	C	MB-17	65 - 80	65 - 80
Dynamic Viscosity @ 170°C ²	<u>dPa.s</u>	MB-13	10 - 40	10 - 40
Compression recovery	%	MB-11	> 70	> 70
			> 70	> 70
			> 40	> 40
Resilience @ 25°C	%	MB-10	10 - 40	10 - 40
Flow @ 70°C ³	mm	MB-12	10 - 40	10 - 40

- 1 Softening point values are higher than S-R1 and A-R1.
- 2 The dynamic viscosity is low than S-R1 and A-R1 and therefore the test is performed 10°C below the recommended spray temperature.
- 3 Flow therefore is done at 70°C to get values that is in relation to the softening point.

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